

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1        1. (Currently Amended) A method of controlling communications in a wireless network comprising:
  - 3            receiving, in a wireless network controller, an indicator in a message sent over an air link by a mobile station to establish a data transfer session in the wireless network; and
  - 5            selecting one of plural types of protocol stacks in the wireless network controller to use for communications over an the air link between the wireless network controller and
  - 6            mobile station based on the indicator.
  
- 1        2. (Currently Amended) The method of claim 1, A method of controlling communications in a wireless network comprising:
  - 3            receiving, in a wireless network controller, an indicator in a message sent by a mobile station to establish a data transfer session in the wireless network; and
  - 5            selecting one of plural types of protocol stacks to use for communications over an air link between the wireless network controller and mobile station based on the indicator,
  - 7            wherein selecting one of plural types of protocol stacks comprises selecting from
  - 8            protocol stacks comprising a GERAN protocol stack.
  
- 1        3. (Original) The method of claim 2, wherein selecting one of plural types of protocol stacks comprises selecting from plural stacks comprising the GERAN protocol stack and an EGPRS protocol stack.
  
- 1        4. (Original) The method of claim 1, wherein selecting one of plural types of protocol stacks comprises selecting from protocol stacks comprising an EGPRS protocol stack.

1       5. (Currently Amended) The method of claim 1, A method of controlling  
2 communications in a wireless network comprising:  
3       receiving, in a wireless network controller, an indicator in a message sent by a  
4 mobile station to establish a data transfer session in the wireless network; and  
5       selecting one of plural types of protocol stacks to use for communications over an  
6 air link between the wireless network controller and mobile station based on the indicator,  
7               wherein receiving the indicator comprises receiving a Temporary Logical Link  
8 Identity structure having one of plural values.

1       6. (Original) The method of claim 5, wherein selecting one of plural types of  
2 protocol stacks comprises selecting a first protocol stack if the Temporary Logical Link Identity  
3 structure has a first value.

1       7. (Original) The method of claim 6, wherein selecting one of plural types of  
2 protocol stacks further comprises selecting a second protocol stack if the Temporary Logical  
3 Link Identity structure has a second value.

1       8. (Original) The method of claim 1, wherein selecting one of plural types of  
2 protocol stacks comprises selecting a first protocol stack if the indicator has a first value and  
3 selecting a second protocol stack if the indicator has a second value.

1       9. (Currently Amended) The method of claim 1, A method of controlling  
2 communications in a wireless network comprising:  
3       receiving, in a wireless network controller, an indicator in a message sent by a  
4 mobile station to establish a data transfer session in the wireless network; and  
5       selecting one of plural types of protocol stacks to use for communications over an  
6 air link between the wireless network controller and mobile station based on the indicator,  
7               wherein receiving the indicator comprises receiving a parameter used for  
8 contention resolution for distinguishing multiple mobile stations.

1           10. (Original) The method of claim 9, further comprising performing contention  
2 resolution using the parameter.

1           11. (Original) The method of claim 9, wherein receiving the parameter comprises  
2 receiving a Temporary Logical Link Identity.

1           12. (Original) The method of claim 9, wherein receiving the parameter comprises  
2 receiving a GERAN Contention Resolution Identity.

1           13. (Original) The method of claim 1, wherein receiving the indicator comprises  
2 receiving one of plural training sequences.

1           14. (Currently Amended) A system comprising:  
2                 an interface to an air link to communicate with mobile stations; and  
3                 a controller adapted to perform contention resolution with a first type of mobile  
4 station using a first type of indicator, the controller adapted to communicate signaling according  
5 to a first wireless protocol with the first type of mobile station, and  
6                 the controller adapted to perform contention resolution with a second type of  
7 mobile station using a second type of indicator, the controller adapted to communicate signaling  
8 according to a second wireless protocol with the second type of mobile station.

1           15. (Original) The system of claim 14, wherein the first wireless protocol comprises  
2 a GERAN wireless protocol.

1           16. (Original) The system of claim 15, wherein the second wireless protocol  
2 comprises an EGPRS wireless protocol.

1           17. (Original) The system of claim 14, wherein the first wireless protocol comprises  
2 an EGPRS wireless protocol.

1        18. (Original) The system of claim 14, wherein the first type of indicator comprises a  
2        Temporary Logical Link Identity (TLLI) structure having a first value, and the second type of  
3        indicator comprises a TLLI structure having a second value.

1        19. (Currently Amended) The system of claim 18, wherein the first value indicates  
2        one of a local TLLI, a foreign TLLI, and a random TLLI, and the second value indicates one of a  
3        local GRCI GCRI and a random GRCI GCRI.

1        20. (Currently Amended) An article comprising at least one storage medium  
2        containing instructions that when executed cause a wireless access system to:  
3              receive an indicator in a message sent by a mobile station over an air link to  
4        establish a data transfer session; and  
5              select one of plural protocol stacks in the wireless access system to use for  
6        communications over an the air link between the wireless access system and the mobile station.

1        21. (Original) The article of claim 20, wherein the instructions when executed cause  
2        the wireless access system to select one of plural protocol stacks by selecting a first protocol  
3        stack in response to the indicator having a first value and selecting a second protocol stack in  
4        response to the indicator having a second value.

1        22. (Currently Amended) The article of claim 20, An article comprising at least one  
2        storage medium containing instructions that when executed cause a wireless access system to:  
3              receive an indicator in a message sent by a mobile station to establish a data  
4        transfer session; and  
5              select one of plural protocol stacks to use for communications over an air link  
6        between the wireless access system and the mobile station,  
7              wherein the instructions when executed cause the wireless access system to select  
8        one of a GERAN protocol stack and an EGPRS protocol stack.

1        23. (Original) The article of claim 20, wherein the instructions when executed cause  
2 the wireless access system to receive the indicator by receiving a Temporary Logical Link  
3 Identity (TLLI) structure.

1        24. (Currently Amended) An article comprising at least one storage medium  
2 containing instructions that when executed cause a wireless access system to:  
3              perform contention resolution with a first type of mobile station using a first type  
4 of indicator;  
5              communicate signaling according to a first wireless protocol with the first type of  
6 mobile station;  
7              perform contention resolution with a second type of mobile station using a second  
8 type of indicator; and  
9              communicate signaling according to a second wireless protocol with the second  
10 type of mobile station.

1        25. (Original) The article of claim 24, wherein the instructions when executed cause  
2 the wireless access system to select one of plural types of protocol stacks based on which of the  
3 first and second types of indicators is received.

1        26. (New) The article of claim 24, wherein performing contention resolution with the  
2 first type of mobile station comprises performing contention resolution using the first type of  
3 indicator to distinguish between the first type mobile station and at least another mobile station,  
4 and  
5              wherein performing contention resolution with the second type of mobile station  
6 comprises performing contention resolution using the second type of indicator to distinguish  
7 between the second type of mobile station and another mobile station.

1        27. (New) The method of claim 1, wherein selecting one of plural types of protocol  
2 stacks in the wireless network controller comprises selecting one of plural types of protocol  
3 stacks in one of a base station controller and radio network controller.

1           28. (New) The system of claim 14, wherein the controller performs contention  
2 resolution with the first type of mobile station by distinguishing the first type of mobile station  
3 from another mobile station using the first type of indicator, and  
4                   the controller performs contention resolution with the second type of mobile  
5 station by distinguishing the second type of mobile station from another mobile station using the  
6 second type of indicator.